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| APPLICATION NO. FILING DATE FIRST N |                      | FIRST NAMED INVENTOR    | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|-------------------------------------|----------------------|-------------------------|---------------------|------------------|--|
| 09/963,251                          | 09/25/2001           | Gina E. Kelly           | ATL 271             | 8579             |  |
| 28159                               | 7590 02/28/2006      | EXAMINER                |                     |                  |  |
| PHILIPS M                           | IEDICAL SYSTEMS      | NAJARIA                 | NAJARIAN, LENA      |                  |  |
|                                     | TELLECTUAL PROPERTY  | ART UNIT                | PAPER NUMBER        |                  |  |
| P.O. BOX 30                         | • • •                | ARTONII                 | PAPER NUMBER        |                  |  |
| 22100 BOTH                          | iell everett highway | 3626                    | 3626                |                  |  |
| BOTHELL,                            | WA 98041-3003        | DATE MAILED: 02/28/2006 |                     |                  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |  |  | Application No.  |   | Applicant(s)  |         |  |  |  |
|--|--|--|--|---|---|---------|--|--|--|
| Office Action Summary                                |  |  | 09/963,251   |   | KELLY ET AL.  |         |  |  |  |
|  |  |  | Examiner   |   | Art Unit  |         |  |  |  |
|  |  |  | Lena Najarian  |   | 3626  |         |  |  |  |
| Period fo  | The MAILING DATE of this commun<br>or Reply  | nication appe  | ears on the co   | er sheet with the c   | orrespondence a   | ddress  |  |  |  |
| WHI(<br>- Exte<br>after<br>- If NO<br>- Failu<br>Any | CHEVER IS LONGER, FROM THE Management of time may be available under the provisions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this component of the provision of period for reply is specified above, the maximum starte to reply within the set or extended period for reply reply received by the Office later than three months are patent term adjustment. See 37 CFR 1.704(b). | MAILING DA's of 37 CFR 1.136 munication. tatutory period will will, by statute, or | TE OF THIS (6(a). In no event, h Il apply and will exp | COMMUNICATION  Dowever, may a reply be time  ire SIX (6) MONTHS from  In to become ABANDONE | N. nely filed the mailing date of this D (35 U.S.C. § 133). |         |  |  |  |
| Status   |  |  |  |   |   |         |  |  |  |
| 1)⊠  | Responsive to communication(s) file  | ed on 25 Sei   | ptember 2001   |   |   |         |  |  |  |
| 2a)□   | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.   |  |  |   |   |         |  |  |  |
| 3)   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |  |  |   |   |         |  |  |  |
| ,  | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  |  |  |   |   |         |  |  |  |
| Disposit   | ion of Claims  |  |  |   |   |         |  |  |  |
| 4)⊠  | Claim(s) 1-23 is/are pending in the a  | application  |  |   |   |         |  |  |  |
| ٠,حـــ   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |  |   |   |         |  |  |  |
| 5)   | Claim(s) is/are withdrawn from consideration.  |  |  |   |   |         |  |  |  |
|  | ☐ Claim(s) is/are allowed.  ☐ Claim(s) 1-23 is/are rejected.   |  |  |   |   |         |  |  |  |
| 7)   |  |  |  |   |   |         |  |  |  |
| . —  | Claim(s) are subject to restrict   | ction and/or   | election requi   | rement.   |   |         |  |  |  |
|  | ion Papers   |  | ,  |   |   |         |  |  |  |
|  | •  | _  |  |   |   |         |  |  |  |
| 9) The specification is objected to by the Examiner. |  |  |  |   |   |         |  |  |  |
| 10)[   | 10)⊠ The drawing(s) filed on <u>25 September 2001</u> is/are: a) accepted or b)⊠ objected to by the Examiner.  |  |  |   |   |         |  |  |  |
|  | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |  |  |   |   |         |  |  |  |
| 111  |  | -  | •  | •   |   | • •     |  |  |  |
|  | The oath or declaration is objected to   | o by the Exa   | ariirier. Note t                                       | ne attached Office  | Action or form P  | 10-152. |  |  |  |
| Priority (   | under 35 U.S.C. § 119  |  |  |   |   |         |  |  |  |
| 12)  | Acknowledgment is made of a claim  | for foreign p  | oriority under   | 35 U.S.C. § 119(a)  | )-(d) or (f).   |         |  |  |  |
| a)   | ☐ All b)☐ Some * c)☐ None of:  |  |  |   |   |         |  |  |  |
|  | <ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>  |  |  |   |   |         |  |  |  |
|  |  |  |  |   |   |         |  |  |  |
|  | 3. Copies of the certified copies  | of the priorit   | ty documents   | have been receive   | ed in this Nationa  | l Stage |  |  |  |
|  | application from the Internation   | nal Bureau   | (PCT Rule 17   | 7.2(a)).  |   |         |  |  |  |
| * (  | See the attached detailed Office action  | on for a list o  | of the certified                                       | copies not receive  | d.  |         |  |  |  |
|  |  |  |  |   |   |         |  |  |  |
| Attachmen  | it(s)  |  |  |   |   |         |  |  |  |
| 1) 🛭 Notic   | ce of References Cited (PTO-892)   |  | 4) [   | Interview Summary   | (PTO-413)   |         |  |  |  |
|  | ce of Draftsperson's Patent Drawing Review (F  |  | ر .<br>م   | Paper No(s)/Mail Da   | ite   | TO 450) |  |  |  |
|  | mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date   | PTO/SB/08)   | 5) [<br>6) [   | Notice of Informal P<br>Other:  | atent Application (PT                                       | U-152)  |  |  |  |
| •  | <del></del>  |  | - / -  |   |   |         |  |  |  |

#### **DETAILED ACTION**

## Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: item 32 (p. 7, line 26), item 38 (p. 8, line 18), and item 40 (p. 8, line 30). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: item 36 (Fig. 6). Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application

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Page 2

must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 10 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Regarding claims 10 and 17, the phrases "may be" and "can be" render the claims indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

### Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 13-20 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Ramshaw et al. (5,791,907).

- (A) Referring to claim 13, Ramshaw discloses a computer-based interactive medical training system comprising a tutorial presented in a computerized display, the tutorial presenting one or more teaching segments of medical information which contain an animation illustrating the medical information being taught (col. 2, line 65 col. 3, line 18, col. 3, lines 50-65, and col. 10, lines 8-10 of Ramshaw).
- (B) Referring to claim 14, Ramshaw discloses wherein a teaching segment further comprises a textual passage describing the medical information and an animation illustrating the medical information (Fig. 8A and col. 11, lines 47-65 of Ramshaw).
- (C) Referring to claim 15, Ramshaw discloses wherein the animation comprises an animated graphic (col. 4, lines 2-12 and col. 10, lines 8-10 of Ramshaw).
- (D) Referring to claim 16, Ramshaw discloses wherein the animation comprises a moving picture (col. 3, lines 6-18 of Ramshaw).
- (E) Referring to claim 17, Ramshaw discloses wherein the textual passage and the animation can be seen on a computer screen without scrolling (Fig. 8B of Ramshaw).
- (F) Referring to claim 18, Ramshaw discloses wherein a teaching segment further comprises a quiz of the medical information taught in the segment (Fig. 3A, item 54 and col. 12, lines 62-64 of Ramshaw).
- (G) Referring to claim 19, Ramshaw discloses wherein the number of teaching segments is two or more (col. 12, lines 23-28 of Ramshaw).

(H) Referring to claim 20, Ramshaw discloses wherein the quiz further comprises a graphic with which a student interacts to demonstrate knowledge of the medical information (col. 3, lines 6-18 and col. 12, line 60 – col. 13, line 13 of Ramshaw).

(I) Referring to claim 23, Ramshaw discloses wherein the medical information comprises operation of medical equipment (col. 13, line 63 – col. 14, line 5 of Ramshaw). Insofar as the claim recites "at least one of," it is immaterial whether or not the other elements are also disclosed.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-4, 6-7, and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allison (US 6,546,230 B1) in view of Eckmann (4,539,435).

  (A) Referring to claim 1, Allison discloses a computer based-interactive medical training system (col. 2, lines 1-13 of Allison).

Allison does not expressly disclose a case study presented in a computerized display in a virtual patient chart format for a patient exhibiting a given medical condition, wherein the virtual patient chart format simulates realistic aspects of a patient chart of medical records.

Eckmann discloses a case study presented in a display in a virtual patient chart format for a patient exhibiting a given medical condition, wherein the virtual patient chart format simulates realistic aspects of a patient chart of medical records (col. 4, lines 47-50, col. 5, lines 58-68, and Fig. 1 of Eckmann).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the features of Eckmann within Allison. The motivation for doing so would have been to present an educational module that presents realistic patient problems (col. 5, lines 58-68 of Eckmann).

- (B) Referring to claim 2, Allison discloses wherein the virtual patient chart further comprises diagnostic reports of a plurality of diagnostic imaging modalities (col. 6, lines 42-51 and col. 2, lines 28-32 of Allison)
- (C) Referring to claim 3, Allison discloses wherein the diagnostic reports further comprise diagnostic reports on the given medical condition (col. 1, lines 19-23 of Allison).
- (D) Referring to claim 4, Allison discloses wherein the diagnostic reports further comprise diagnostic images from the plurality of diagnostic imaging modalities (col. 2,lines 28-42 of Allison).
- (E) Referring to claim 6, Allison does not disclose wherein the virtual patient chart further comprises general medical information on the given medical condition.

Eckmann discloses wherein the virtual patient chart further comprises general medical information on the given medical condition (col. 6, lines 1-9 of Eckmann).

Application/Control Number: 09/963,251

Art Unit: 3626

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Eckmann within Allison. The motivation for doing so would have been to provide pertinent information, such as symptoms associated with the condition, to determine the best course of action (col. 6, lines 1-9 and 33-35 of Eckmann).

(F) Referring to claim 7, Allison does not disclose wherein the general medical information further comprises one or more of typical findings for a given pathology, signs, symptoms, treatment and prognosis for the given medical condition.

Eckmann discloses wherein the general medical information further comprises treatment for the given medical condition (col. 8, lines 37-38 of Eckmann). Insofar as the claim recites "one or more of," it is immaterial whether or not the other elements are also disclosed.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Eckmann within Allison. The motivation for doing so would have been to indicate an acceptable method of treatment (col. 8, lines 37-38 of Eckmann).

(G) Referring to claim 9, Allison discloses a test on the comprehension or application of the information (col. 2, lines 1-13 of Allison).

Allison does not disclose information of the virtual patient chart.

Eckmann discloses information of the virtual patient chart (col. 4, lines 47-57 and col. 6, lines 52-68 of Eckmann).

Application/Control Number: 09/963,251

Art Unit: 3626

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Eckmann within Allison. The motivation for doing so would have been for a student to be tested on how they would diagnose and treat a patient given a certain scenario (col. 6, lines 52-68 of Eckmann).

(H) Referring to claim 10, Allison does not disclose wherein the test comprises a test which may be taken following review of some or all of the material of the virtual patient chart.

Eckmann discloses wherein the test comprises a test which may be taken following review of some or all of the material of the virtual patient chart (col. 4, lines 47-58 and col. 5, lines 58-68 of Eckmann).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the features of Eckmann within Allison. The motivation for doing so would have been for the physician to be tested when ready (col. 4, lines 53-57 of Eckmann).

(I) Referring to claim 11, Allison does not disclose wherein the virtual patient chart is presented by a computer, and wherein the test is scored by the computer presenting the patient chart.

Eckmann discloses wherein the virtual patient chart is presented by a computer (col. 3, lines 38-40 of Eckmann), and wherein the test is scored by the system presenting the patient chart (Fig. 1, col. 2, line 54 – col. 3, line 5, and col. 6, lines 33-37 of Eckmann).

Application/Control Number: 09/963,251

Art Unit: 3626

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the features of Eckmann within Allison. The motivation for doing so would have been for the interaction to occur at a single location (col. 3, lines 23-30 of Eckmann).

(J) Referring to claim 12, Allison discloses wherein the training is presented by a computer, and wherein the test is scored by a computer connected to the computer presenting the training (col. 10, lines 30-35 of Allison).

Allison does not disclose that the training includes a virtual patient chart.

Eckmann discloses a virtual patient chart (col. 4, lines 47-50, col. 5, lines 58-68, and Fig. 1 of Eckmann).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the features of Eckmann within Allison. The motivation for doing so would have been to present an educational module that presents realistic patient problems (col. 5, lines 58-68 of Eckmann).

- 10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allison (US 6,546,230 B1) in view of Eckmann (4,539,435), and further in view of Gray (6,149,585).
- (A) Referring to claim 5, Allison and Eckmann do not disclose wherein the diagnostic reports further comprise instruction that a given diagnostic modality is not appropriate or deemed necessary to diagnose the given medical condition.

Gray discloses wherein the diagnostic reports further comprise instruction that a given diagnostic modality is not appropriate or deemed necessary to

diagnose the given medical condition (col. 1, lines 46-54 and col. 6, lines 50-64 of Gray).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Gray within Allison and Eckmann. The motivation for doing so would have been to reduce the cost of healthcare (col. 1, lines 45-48 of Gray).

- 11. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allison (US 6,546,230 B1) in view of Eckmann (4,539,435), as applied to claim 1 above, and further in view of Garcia (5,065,315).
- (A) Referring to claim 8, Allison and Eckmann do not disclose wherein the virtual patient chart further comprises at least one of laboratory reports and pathology specimen pictures.

Garcia discloses wherein the patient chart further comprises laboratory reports (col. 1, lines 16-23 of Garcia). Insofar as the claim recites "at least one of," it is immaterial whether or not the other elements are also disclosed.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Garcia within Allison and Eckmann. The motivation for doing so would have been for all pertinent documents to be included in the patient's file (col. 1, lines 16-23 of Garcia).

Application/Control Number: 09/963,251 Page 11

Art Unit: 3626

12. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ramshaw et al. (5,791,907) in view of Allison (US 6,546,230 B1).

(A) Referring to claim 21, Ramshaw does not disclose wherein the graphic comprises a diagnostic medical image.

Allison discloses wherein the graphic comprises a diagnostic medical image (col. 2, lines 24-42 of Allison).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Allison within Ramshaw. The motivation for doing so would have been to provide training courses geared toward a variety of topics (col. 2, lines 32-36 of Allison).

(B) Referring to claim 22, Ramshaw does not disclose wherein the medical information comprises a clinical application of medical diagnostic imaging.

Allison discloses wherein the medical information comprises a clinical application of medical diagnostic imaging (col. 5, lines 47-52 and col. 2, lines 24-42 of Allison).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the feature of Allison within Ramshaw. The motivation for doing so would have been to train and test end-users of diagnostic systems (col. 5, lines 47-52 of Allison).

#### Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited but not applied prior art teaches a medical consultation management system (US 6,256,613 B1); a computerized education system for teaching patient care (US 6,193,519 B1); a computerized education system for teaching patient care (5,853,292); a remote delivery of software-based training for implantable medical device systems (US 6,386,882 B1); and a simulation system for image-guided medical procedures (US 2002/0168618 A1).
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lena Najarian whose telephone number is 571-272-7072. The examiner can normally be reached on Monday Friday, 8:30 am 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on 571-272-6776. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

<sup>'</sup>In

2-6-06

C. LUKE GILLIGAN PATENT EXAMINED